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Rosemarie Contella

Name

Rosemarie Contella

Signature

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application Of: Rubino et al.

For: Hermetically Sealed Coin Cell

the specification of which is being transmitted herewith

Assistant Commissioner of Patents
Washington, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT
Pursuant to 37 CFR 1.56**

1. Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56.

The filing of this Information Disclosure Statement (IDS) shall not be construed as a representation that a search has been made (37 CFR 1.56(g)), an admission that the information cited is, or is considered to be material to patentability or that no other material information exists.

The filing of this IDS shall not be construed as an admission against interest in any manner (Notice of Jan. 9, 1992, 1135 O.G. 13-25, at 25).

2. Attached is Form PTO-1449.

3. A concise explanation of the possible relevance of the listed information items is as follows:

IDS For: Hermetically Sealed Coin Cell
Inventor: Rubino et al.

Patents:

U.S. Patent No., 5,004,656 to Sato et al. shows a flat type sealed battery comprising a battery vessel having a bottom wall with an electrolyte charging opening formed in the central portion thereof, a battery lid member for covering the upper opening of the battery vessel, power generating components enclosed by sealing the battery vessel and battery lid member, a first sealing member for sealing the electrolyte charging opening after the electrolyte is charged into the battery vessel, and a second sealing member for covering an aperture in the side of the lower edge portion of the electrolyte charging opening. The outer peripheral portion of the second sealing member is welded to the bottom wall of the battery vessel. The battery vessel may be a flat disc vessel of stainless steel plate and the battery lid may also comprise stainless steel. The ring shaped insulating layer may be made of glass with the positive electrode terminal being made of stainless steel. The lid supporting the ring of insulating glass and the positive terminal pin assembly is welded to the inner surface of the lid body to hold the hermetic metal-glass-metal sealed structure together.

U.S. Patent No., 5,807,44 to Blonsky et al. relates to a button-type battery having an anode, a cathode and an electrolyte encased with two terminal housing members. The terminal housing members have respective peripheries that are crimped together to form a fluid-type seal. The anode may comprise elemental lithium provided on a copper backed foil. The cathode may be formed of a compressed tablet of a composite of manganese oxide, carbon and Teflon powder. The housing members may be stainless steel. Similar batteries

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having fluid-type seals are shown in U.S. Patent No. 5,952,121, also to Blonsky et al.

U.S. Patent No. 4,074,292 to Shaffer discloses a cover for hermetically sealed electrochemical cells. This patent also teaches a process for producing glass-to-metal seals in an apertured metal body comprising positioning the apertured metal with a substantially centrally located metal lead within the aperture. The sealing glass is placed in the aperture and the assembly is fired to melt the glass and effect a seal.

U.S. Patent No. 4,128,697 to Simpson teaches hermetic glass-metal compression seal consisting of a steel outer member having an opening therethrough, a unitary glass sealing member positioned in the opening and hermetically sealed to the steel, and a low-expansion cobalt-nickel-metallic conductor passing through the glassy sealing member and hermetically sealed thereto.

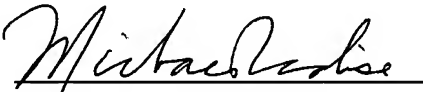
U.S. Patent No. 4,709,598 to Takeuchi et al. shows electrochemical cells including a ferrous metal housing having an opening in a wall of the housing and a non-ferrous metal terminal pin secured within the opening and electronically insulated from the housing. An anode and cathode are contained within the housing and a non-ferrous metal cathode collector is electronically connected to the cathode and to the terminal pin, thus rendering the terminal pin the cathode terminal. A glass-to-metal seal is used to secure the terminal pin in the opening, electronically isolated from the terminal pin.

4. The remaining patents on the attached Form PTO 1449 where located during a patentability search.

IDS For: Hermetically Sealed Coin Cell
Inventor: Rubino et al.

5. The person making this statement is the agent who signs below, who makes this statement on the information supplied by the inventors and the information in the agent's file.

Respectfully submitted,

By: 
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January 20, 2004

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PTO/SB/08A(08/00)

Approved for use through 10/31/2002, OMB 0651-0031

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT***(Use as many sheets as necessary)*

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | Application Number | |
| | | | | Filing Date | |
| | | | | First Named Inventor | |
| | | | | Group Art Unit | |
| | | | | Examiner Name | |
| Sheet | 5 | of | 5 | Attorney Docket Number | |
| | | | | 37505.0301 | |

U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. 1 | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear |
|--------------------|------------|----------------------|------------------------|---|--|--|
| | | Number | Kind Code 2 (if known) | | | |
| | 1 | 3,957,496 | | Eagan | 05-10-1976 | |
| | 2 | 4,047,292 | | Shaffer | 09-13-1997 | |
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| | 5 | 4,233,372 | | Bro et al. | 11-11-1980 | |
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FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. 1 | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear | T6 |
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.